



10/07/223

DAES 2nd

Practitioner's Docket No. MPI97-068P1CN1DV1M

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Number: 6,841,372 B2
Date of Issue: January 11, 2005
Name of Patentee: Daniel R. Storm, *et al.*
Title of Invention: CLONING AND CHARACTERIZATION OF A HUMAN
ADENYLYL CYCLASE

Mail Stop PETITIONS
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL

1. Transmitted herewith for this application is/are:
- a. This Transmittal (2 pages - in duplicate);
 - b. Copy of Communication from the United States Patent and Trademark Office dated March 21, 2005 (2 pages);
 - c. Request to Correct Assignee under 37CFR 3.81(b) (2 pages - in duplicate);
 - d. Copy of Issue Notification received January 3, 2005 (1 page);
 - e. Copy of Certificate of Correction (filed on January 31, 2005);
 - f. Copy of Assignment of the invention from Daniel R. Storm and Beth Hacker to the University of Washington (4 pages);
 - g. Copy of Assignment of the invention from James E. Tomlinson to COR Therapeutics, Inc. (3 pages);
 - h. Copy of Assignment of the invention from COR Therapeutics, Inc. to Millennium Pharmaceuticals, Inc. and a copy of the Merger documents in relation to the merger between Millennium Pharmaceuticals, Inc. and COR Therapeutics, Inc. (10 pages); and
 - i. Return Postcard.

CERTIFICATION UNDER 37 C.F.R. SECTIONS 1.8(a) and 1.10*

I hereby certify that, on the date shown below, this correspondence is being:

MAILING

- ☒ deposited with the United States Postal Service in an envelope addressed to Mail Stop PETITIONS, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

37 C.F.R. SECTION 1.8(a)

37 C.F.R. SECTION 1.10*

- ☒ with sufficient postage as first class mail. ☐ as "Express Mail Post Office to Addressee" Mailing Label No.

TRANSMISSION

- ☐ transmitted by facsimile to the Patent and Trademark Office.

Signature

Date: April 27, 2005

Sean Hunziker

(type or print name of person certifying)

***WARNING:** Each paper or fee filed by "Express Mail" **must** have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. section 1.10(b). "Since the filing of correspondence under section 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will **not** be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

Practitioner's Docket No. MPI97-068P1CN1DV1M

2. Applicant is other than a small entity.

FEE

3. Please charge the \$130.00 processing fee set forth in 37 CFR 1.17(h) to Account No. 501668.
(A duplicate of this transmittal is attached).

If any additional fee is required, charge Account No. 501668.

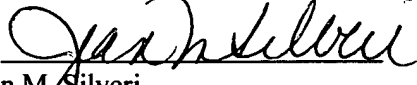
4. Correspondence Address

Direct all future correspondence to:

Customer Number 30405
OR
Intellectual Property Department
MILLENNIUM PHARMACEUTICALS, INC.
40 Landsdowne Street
Cambridge, MA 02139

April 27, 2005

MILLENNIUM PHARMACEUTICALS, INC.

By 
Jean M. Silveri
Attorney/Agent for Applicant
Registration No. 39,030
40 Landsdowne Street
Cambridge, MA 02139
Telephone - 617-679-7336
Facsimile - 617-551-8820



Practitioner's Docket No. **MPI97-068P1CN1DV1M**

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Number:	6,841,372 B2		
Date of Issue:	January 11, 2005		
Name of Patentee:	Daniel R. Storm, <i>et al.</i>		
Title of Invention:	CLONING AND CHARACTERIZATION OF A HUMAN ADENYLYL CYCLASE		

Mail Stop PETITIONS
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REQUEST TO CORRECT ASSIGNEE UNDER 37 CFR 3.81(b)

Dear Sir:

By way of this petition, Applicants respectfully request that the **University of Washington, Seattle, WA (US)** be included as an assignee on the cover of the above-identified patent. During the prosecution of the above-identified patent, Applicants had submitted the following assignments:

- 1) An assignment of the invention from James E. Tomlinson to COR Therapeutics, Inc. which was recorded on July 24, 2000;
- 2) An assignment of the invention from Daniel R. Storm and Beth Hacker to the University of Washington, which was recorded on July 24, 2000; and

05/04/2005 AWONDAF1 00000016 501668 6841372

01 FC:1464 130.00 DA

CERTIFICATION UNDER 37 C.F.R. SECTIONS 1.8(a) and 1.10*

I hereby certify that, on the date shown below, this correspondence is being:

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37 C.F.R. SECTION 1.8(a)

37 C.F.R. SECTION 1.10*

- ☒ with sufficient postage as first class mail. ☐ as "Express Mail Post Office to Addressee" Mailing Label No. _____

TRANSMISSION

- ☐ transmitted by facsimile to the Patent and Trademark Office.

Signature

Date: April 27, 2005

Sean Hunziker

(type or print name of person certifying)

***WARNING:** Each paper or fee filed by "Express Mail" **must** have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. section 1.10(b). "Since the filing of correspondence under section 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will **not** be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

- 3) An assignment of the invention from COR Therapeutics, Inc. to Millennium Pharmaceuticals, Inc., which was recorded on May 24, 2002.

Copies of the three above-listed Notices of Recordation of Assignment Documents, which identify the reel and frame numbers where each assignment was recorded, are submitted herewith.

Upon payment of the issue fee, Applicants inadvertently failed to add the University of Washington as an assignee on the PTOL-85B form. Applicants therefore respectfully request that the University of Washington, Seattle, WA (US) be added as an additional assignee on this Patent.

Please charge the \$130.00 processing fee set forth in 37 CFR 1.17(h) to Account No. 501668. A duplicate of this Request is attached. In the event any additional fees are necessary, the undersigned hereby authorizes the requisite fees to be charged to Deposit Account No. 501668.

The Applicant respectfully requests that this file be forwarded to the Certificates of Correction Branch, for issuance of a Certificate of Correction, if this Request is granted.

April 27, 2005

Respectfully submitted,

MILLENNIUM PHARMACEUTICALS, INC.

By

Jean M. Silveri

Attorney/Agent for Applicant

Registration No. 39,030

40 Landsdowne Street

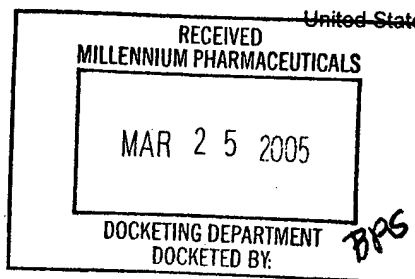
Cambridge, MA 02139

Telephone - 617-679-7336

Facsimile - 617-551-8820



UNITED STATES PATENT AND TRADEMARK OFFICE



Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

Dated : March 21, 2005
Patent No. : 6,841,372
Inventor(s) : Storm et al.
Issued : January 11, 2005
Title : CLONING AND CHARACTERIZATION OF A HUMAN ADENYLYL
CYCLASE
Docket No.: 044481-5029-02

MP197-068P/CN/DVIM

Re: Request for Certificate of Correction

Consideration has been given your request for the issuance of a certificate of correction for the above-identified patent under the provisions of Rule(s) 1.322 and/or 1.323.

Assignees' names and addresses (assignment data) printed in a patent, are based *solely* on information supplied in the appropriate space for identifying the assignment data, i.e., item 3 of the Issue Fee Transmittal Form PTOL-85B. Granting of a request under 37 CFR 3.81(b) is required to correct applicant's error providing incorrect or erroneous assignment data, *before* issuance of a Certificate of Correction, under 37 CFR 1.323 (*see Manual of Patent Examining Procedures (M.P.E.P) Chp.1400, sect. 1481*). This procedure is required *at any time after the issue fee is paid*, including after issuance of the patent.

In view of the foregoing, your request, in this matter, is hereby denied.

A request to correct the Assignee under 37 CFR 3.81(b) should include:

- A. the processing fee set forth in 37 CFR 1.117(h) (currently \$130);**
- B. a statement that the failure to include the correct assignee name on the PTOL-85B was inadvertent; and**
- C. a copy of the Notice of Recordation of Assignment Document, reflecting the reel and frame number where the assignment(s) is recorded and/or reflecting proof of the date the assignment was submitted for recordation.**

In the Request, Applicant(s) may request that the file be forwarded to Certificates of Correction Branch, for issuance of a Certificate of Correction, if the Request is granted.

Any request under 37 CFR 3.81(b) should be directed to the following address or facsimile number:

By mail: Mail Stop PETITIONS
Commissioner for Patents
Post Office Box 1450
Alexandria, VA 22313-1450

COPY

By hand: Customer Service Window
Mail Stop Petitions
Randolph Building
401 Dulany Street
Alexandria, VA 22314

By fax: (703) 872-9306
ATTN: Office of Petitions

If a fee (currently \$100) was previously submitted for consideration of a Request for Certificate of Correction, under CFR 1.323, to correct assignment data, no additional fee is required.



Stacy Powell, Sr.

For Cecelia B. Newman, Supervisor
Decisions & Certificates of
Correction Branch
(703) 308 - 9390 or (703) 305 - 8309

Millennium Pharmaceuticals, Inc.
40 Landsdowne Street
Cambridge, MA 02139

CBN/spsr



UNITED STATES PATENT AND TRADEMARK OFFICE

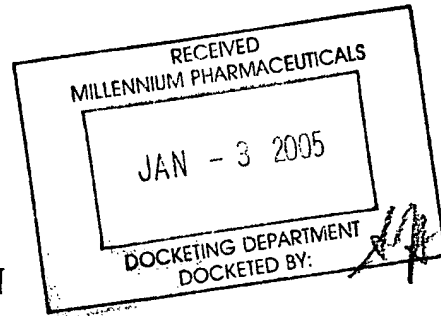
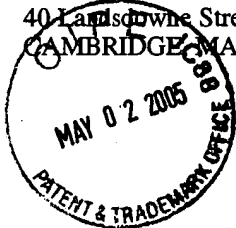
UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/071,223	01/11/2005	6841372	044481-5029-02	1096

30405 7590 12/23/2004

MILLENNIUM PHARMACEUTICALS, INC.

40 Landsdowne Street
CAMBRIDGE, MA 02139



ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment is 249 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571) 272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

APPLICANT(s) (up to 18 names are included below, see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Daniel R. Storm, Seattle, WA;
Beth Hacker, Seattle, WA;
James E. Tomlinson, Burlingame, CA;

COPY

UNITED STATES PATENT AND TRADEMARK OFFICE**CERTIFICATE OF CORRECTION**

PATENT NO : 6, 841, 372 B2

DATED : January 11, 2005

INVENTOR(S) : Daniel R. Storm. *et al.*.

It is certified that an error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COVER PAGE:

Please make the following corrections to the Assignee listed:

Assignees: Millennium Pharmaceuticals, Inc., Cambridge, Massachusetts (US);
University of Washington, Seattle, WA (US)

PATENT NO. 6, 841, 372 B2

MAILING ADDRESS OF SENDER:

No. of additional copies 0

Name: Customer Number 30405 Intellectual Property Department MILLENNIUM PHARMACEUTICALS, INC.			
Address	40 Landsdowne Street	Zip Code	02139
City	Cambridge	Fax	617-551-8820
State	MA	Telephone	617-374-7679
Name (Print/Type)	Tracy M. Sioussat	Registration No. (Attorney/Agent)	50,609
Signature		Date January 31, 2005	

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

RGA
MST
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OCTOBER 03, 2000

PTAS

MORGAN, LEWIS & BOCKIUS LLP
REID G. ADLER
1800 M STREET, N.W.
WASHINGTON, D.C. 20036



101437272A

OCT 03 2000

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 07/24/2000

REEL/FRAME: 010999/0728
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

STORM, DANIEL R.

DOC DATE: 06/29/2000

ASSIGNOR:

HACKER, BETH

DOC DATE: 06/12/2000

ASSIGNEE:

WASHINGTON, UNIVERSITY OF
1107 N.E. 45TH STREET
SEATTLE, WASHINGTON 98105

SERIAL NUMBER: 09473717
PATENT NUMBER:

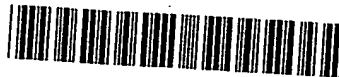
FILING DATE: 12/29/1999
ISSUE DATE:

DIANE RUSSELE, PARALEGAL
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

44481-5029-01
DOCKETED
By SDW Date 10-10-00

RECORDATI
P.

08-19-2000



101437272

ny Docket No.: 044481-5029-01

To the Commissioner for Patents:
Please record the attached original documents or copy thereof.

ATTN: BOX ASSIGNMENT

1. Name of conveying party(ies):

- 1) Daniel R. STORM
- 2) Beth HACKER

Additional name(s) of conveying party(ies) attached?
☐ Yes ☒ No



2. Name and address of receiving party(ies):

Name: University of Washington

Internal Address:

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
- ☐ Security Agreement ☐ Change of Name
- ☐ Other _____

Street Address: 1107 N.E. 45th Street,

City: Seattle

State: Washington

Zip: 98105

Additional name(s) & address(es) attached?

☐ Yes ☒ No

Execution Date: 1) June 29, 2000 and 2) June 12, 2000

4. Application number(s) or patent number(s):

If this document is being filed together with a new application the execution date of the application is:

A. Patent Application No.(s): 09/473,717

B. Patent No.(s)

Additional numbers attached: ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Reid G. Adler

Internal Address: Morgan, Lewis & Bockius LLP

Street Address: 1800 M Street, N.W.

City: Washington State: D.C. Zip: 20036

6. Total number of applications and patents involved: 1

7. Total fee (37 C.F.R §3.41): \$40.00

☐ Enclosed

☒ Authorized to be charged to deposit account 50-0310

8. Deposit account number: 50-0310

Attach duplicate of page if paying by deposit account

9. Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Michael S. Tuscan

Name of Person Signing

Michael S. Tuscan
Signature

July 24, 2000

Date

08/18/2000 DNGUYEN 00000054 500310 09473717

Total number of pages including cover sheet, attachments and documents: 3

01 FL:581

40.00 CH

ASSIGNMENT

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

CLONING AND CHARACTERIZATION OF A HUMAN ADENYLYL CYCLASE

for which I/WE executed an application for United States Letters Patent concurrently herewith; or on _____; or filed an application for United States Letters Patent on December 29, 1999, (Serial No. 09/473,717); and

WHEREAS, University of Washington, a corporation of Washington, whose post office address is 1107 N.E. 45th Street, Seattle, WA 98105 (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

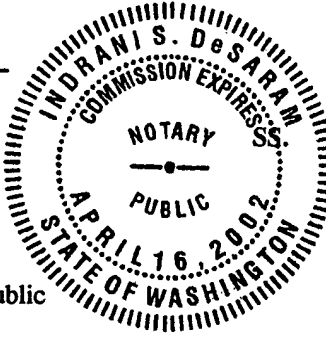
NOW THEREFORE, be it known that, for and in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, the parent PCT application No. PCT/US98/13541, all national stage applications claiming priority to PCT/US98/13541 and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY covenant that I/WE have the full right to convey the interest assigned by this Assignment, and I/WE have not executed and will not execute any agreement in conflict with this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I/WE have hereunto set my/our hand(s).

County of <u>King</u>	<u>Daniel R. Storm</u> Full Name of Sole or First Assignor
State of <u>Washington</u>	<u>8025 36th Avenue, NE, Seattle, WA 98125</u> Address
Subscribed and sworn to before me this <u>21</u> day of <u>JUNE</u> , 2000.	<u>Daniel R. Storm</u> First Assignor's Signature
<u>[Signature]</u> Notary Public MY COMMISSION EXPIRES <u>2/15/2002</u>	<u>6/29/00</u> Date
Names of additional inventors attached <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

<p>County of <u>King</u></p> <p>State of <u>Washington</u></p> <p>Subscribed and sworn to before me this <u>12</u> day of <u>June</u>, 2000.</p> <p><u>Indrani S. deSaram</u> Notary Public</p>		<p><u>Beth Hacker</u> Full Name of Second Assignor</p> <p><u>10022 36TH Ave NE Seattle WA 98125 B#</u> <u>7239 Sand Point Way, NE #407, Seattle, WA 98115</u></p> <p>Address</p> <p><u>Beth Hacker</u> Second Assignor's Signature</p> <p><u>6/12/00</u> Date</p>
<p>County of _____</p> <p>State of _____</p> <p>Subscribed and sworn to before me this ____ day of _____, 2000.</p> <p>_____ Notary Public</p>	<p>SS.</p>	<p>Full Name of Third Assignor</p> <p>Address</p> <p>Third Assignor's Signature</p> <p>Date</p>
<p>County of _____</p> <p>State of _____</p> <p>Subscribed and sworn to before me this ____ day of _____, 2000.</p> <p>_____ Notary Public</p>	<p>SS.</p>	<p>Full Name of Fourth Assignor</p> <p>Address</p> <p>Fourth Assignor's Signature</p> <p>Date</p>
<p>County of _____</p> <p>State of _____</p> <p>Subscribed and sworn to before me this ____ day of _____, 2000.</p> <p>_____ Notary Public</p>	<p>SS.</p>	<p>Full Name of Fifth Assignor</p> <p>Address</p> <p>Fifth Assignor's Signature</p> <p>Date</p>
<p>Names of additional inventors attached <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>		



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

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MST
RK

OCTOBER 03, 2000

PTAS

MORGAN, LEWIS & BOCKIUS LLP
REID G. ADLER
1800 M STREET, N.W.
WASHINGTON, DC 20036



101437271A

007 0 2 2000

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RECORDATION DATE: 07/24/2000

REEL/FRAME: 010999/0711
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

TOMLINSON, JAMES E.

DOC DATE: 05/30/2000

ASSIGNEE:

COR THERAPEUTICS, INC.
256 E. GRAND AVE.
SOUTH SAN FRANCISCO, CALIFORNIA

94080

SERIAL NUMBER: 09473717
PATENT NUMBER:

FILING DATE: 12/29/1999
ISSUE DATE:

ANTIONE ROYALL, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

44481-5029-01
DOCKETED
By SDW Date 10-10-00

08-19-2000

REC



RET

101437271

7.24.00

Attorney Docket No.: 044481-5029-01

To the Commissioner for Patents:

Please record the attached original documents or copy thereof.

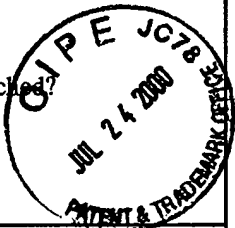
ATTN: BOX ASSIGNMENT

1. Name of conveying party(ies):

1. James E. Tomlinson

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No



2. Name and address of receiving party(ies):

Name: COR Therapeutics, Inc.

Internal Address:

3. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Street Address: 256 E. Grand Ave.,

City: South San Francisco

State: California Zip: 94080

Additional name(s) & address(es) attached?

☐ Yes ☒ No

Execution Date: May 30, 2000

4. Application number(s) or patent number(s):

If this document is being filed together with a new application the execution date of the application is:

A. Patent Application No.(s): 09/473,717

B. Patent No.(s)

Additional numbers attached: ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Reid G. Adams

Internal Address: Morgan, Lewis & Bockius LLP

Street Address: 1800 M Street, N.W.

City: Washington State: D.C. Zip: 20036

6. Total number of applications and patents involved: 1

7. Total fee (37 C.F.R §3.41): \$40.00

☐ Enclosed

☒ Authorized to be charged to deposit account 50-0310

8. Deposit account number: 50-0310

Attach duplicate of page if paying by deposit account

9. Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Michael S. Tuscan

Name of Person Signing

Michael S. Tuscan

Signature

July 24, 2000

Date

08/18/2000 DNGUYEN 00000053 500310 09473717

01 FC-581 10.00 CH

Total number of pages including cover sheet, attachments and documents: 2

ASSIGNMENT

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

CLONING AND CHARACTERIZATION OF A HUMAN ADENYLYL CYCLASE

for which I/WE executed an application for United States Letters Patent concurrently herewith; or on _____; or filed an application for United States Letters Patent on December 29, 1999, (Serial No. 09/473,717); and

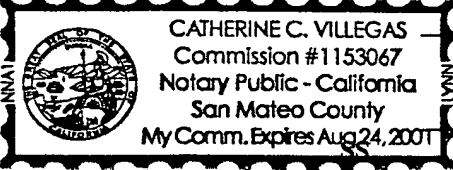

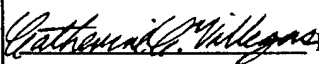
WHEREAS, COR Therapeutics, Inc., a corporation of California, whose post office address is 256 E. Grand Ave., South San Francisco, California 94080 (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for and in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, the parent PCT application No. PCT/US98/13541, all national stage applications claiming priority to PCT/US98/13541 and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY covenant that I/WE have the full right to convey the interest assigned by this Assignment, and I/WE have not executed and will not execute any agreement in conflict with this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I/WE have hereunto set my/our hand(s).

County of <u>San Mateo</u> State of <u>California</u>		<u>James E. Tomlinson</u> Full Name of Sole or First Assignor <u>1540 Balboa St., Burlingame, CA 94010</u> Address <u></u> First Assignor's Signature <u>5/30/06</u> Date
Subscribed and sworn to before me this <u>15</u> day of <u>June</u> , 2000. <u></u> Notary Public		
Names of additional inventors attached <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		



MST
ECW
MST
RJS
RK

JULY 30, 2002

PTAS

MORGAN, LEWIS & BOCKIUS LLP
MICHAEL S. TUSCAN
1111 PENNSYLVANIA AVE., N.W.
WASHINGTON, D.C. 20004

Chief Information Officer
Washington, DC 20231
www.uspto.gov



102108467A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 05/24/2002

REEL/FRAME: 012928/0446
NUMBER OF PAGES: 6

BRIEF: MERGER (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

COR THERAPEUTICS, INC.

DOC DATE: 02/12/2002

ASSIGNEE:

MILLENNIUM PHARMACEUTICALS, INC.
75 SIDNEY STREET
CAMBRIDGE, MASSACHUSETTS 02139

SERIAL NUMBER: 07578646
PATENT NUMBER: 5278144 - 44481-5002

FILING DATE: 09/04/1990
ISSUE DATE: 01/11/1994 MST/MST/RJS

SERIAL NUMBER: 08249777
PATENT NUMBER: 5597799 - 44481-5002-02

FILING DATE: 05/26/1994
ISSUE DATE: 01/28/1997 MST/MST/RJS

SERIAL NUMBER: 08467339
PATENT NUMBER: 5635481 - 44481-5002-03

FILING DATE: 06/06/1995
ISSUE DATE: 06/03/1997 MST/MST/RJS

SERIAL NUMBER: 08470807
PATENT NUMBER: 5650314 - 44481-5002-04

FILING DATE: 06/06/1995
ISSUE DATE: 07/22/1997 MST/MST/RJS

RECEIVED

AUG 05 2002

MORGAN, LEWIS & BOCKIUS LLP

DOCKETED

By SOW Date 8-5-02

SERIAL NUMBER: 08268003	44481-5002-05	FILING DATE: 06/29/1994	MST/MST/RJS
PATENT NUMBER: 5583107		ISSUE DATE: 12/10/1996	
SERIAL NUMBER: 08487037	44481-5002-10	FILING DATE: 06/07/1995	MST/MST/RJS
PATENT NUMBER: 5795863		ISSUE DATE: 08/18/1998	
SERIAL NUMBER: 08469301	44481-5002-11	FILING DATE: 06/06/1995	MST/MST/RJS
PATENT NUMBER: 5837679		ISSUE DATE: 11/17/1998	
SERIAL NUMBER: 09016400	44481-5002-12	FILING DATE: 01/30/1998	MST/MST/RJS
PATENT NUMBER: 5990079		ISSUE DATE: 11/23/1999	
SERIAL NUMBER: 09016403	44491-5002-13	FILING DATE: 01/30/1998	MST/MST/RJS
PATENT NUMBER: 5968897		ISSUE DATE: 10/19/1999	
SERIAL NUMBER: 07614443	44481-5003	FILING DATE: 11/16/1990	MST/ECW/RJS
PATENT NUMBER: 5342830		ISSUE DATE: 08/30/1994	
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PATENT NUMBER: 5679542		ISSUE DATE: 10/21/1997	
SERIAL NUMBER: 08481676	44481-5003-02	FILING DATE: 06/07/1995	MST/ECW/RJS
PATENT NUMBER: 5744584		ISSUE DATE: 04/28/1998	
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SERIAL NUMBER: 08307609	44481-5004-03	FILING DATE: 12/02/1994	MST/MST/RJS
PATENT NUMBER: 6117836		ISSUE DATE: 09/12/2000	
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SERIAL NUMBER: 08476976	44481-5006-04	FILING DATE: 06/07/1995	MST/MST/RK
PATENT NUMBER: 5874400		ISSUE DATE: 02/23/1999	
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SERIAL NUMBER: 08476000	44481-5006-07	FILING DATE: 06/07/1995	MST/MST/RK
PATENT NUMBER: 5716789		ISSUE DATE: 02/10/1998	
SERIAL NUMBER: 08486673	44481-5006-08	FILING DATE: 06/07/1995	MST/MST/RK
PATENT NUMBER: 6297026		ISSUE DATE: 10/02/2001	
SERIAL NUMBER: 08330978	44481-5007-01	FILING DATE: 10/28/1994	MST/ECW/RJS
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PATENT NUMBER: 6083688		ISSUE DATE: 07/04/2000	MST/ECW/RJS
SERIAL NUMBER: 08753038	44481-5025	FILING DATE: 11/18/1996	
PATENT NUMBER: 6194557		ISSUE DATE: 02/27/2001	MST/MST/RJS
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PATENT NUMBER: 6060588		ISSUE DATE: 05/09/2000	MST/MST/RJS
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PATENT NUMBER: 6372475		ISSUE DATE: 04/16/2002	MST/MST/RK
SERIAL NUMBER: 08948672	44481-5012-01	FILING DATE: 10/10/1997	
PATENT NUMBER: 6262047		ISSUE DATE: 07/17/2001	JAL/ECW/OKH
SERIAL NUMBER: 08948664	44481-5014-02	FILING DATE: 10/10/1997	
PATENT NUMBER: 6369080		ISSUE DATE: 04/09/2002	JAL/ECW/OKH Transferred TTC
SERIAL NUMBER: 08948663	44481-5015-02	FILING DATE: 10/10/1997	
PATENT NUMBER: 6063794		ISSUE DATE: 05/16/2000	Transferred TTC
SERIAL NUMBER: 08948482	44481-5016-02	FILING DATE: 10/10/1997	
PATENT NUMBER: 6194435		ISSUE DATE: 02/27/2001	Transferred TTC
SERIAL NUMBER: 09058564	44481-5021	FILING DATE: 04/13/1998	
PATENT NUMBER: 6211183		ISSUE DATE: 04/03/2001	Transferred TTC
SERIAL NUMBER: 09058821	44481-5022	FILING DATE: 04/13/1998	
PATENT NUMBER: 6369063		ISSUE DATE: 04/09/2002	Transferred TTC

SERIAL NUMBER: 09058566
PATENT NUMBER: 6133256 - 44481-5023

FILING DATE: 04/13/1998 Transferred
ISSUE DATE: 10/17/2000 TTC

SERIAL NUMBER: 09058565
PATENT NUMBER: 6204268 44481-5024

FILING DATE: 04/13/1998 Transferred
ISSUE DATE: 03/20/2001 TTC

SERIAL NUMBER: 09132257
PATENT NUMBER: 6228854 44481-5034

FILING DATE: 08/11/1998 Transferred
ISSUE DATE: 05/08/2001 TTC

SERIAL NUMBER: 09132258
PATENT NUMBER: 6218382 44481-5035

FILING DATE: 08/11/1998
ISSUE DATE: 04/17/2001 Transferred
TTC

SERIAL NUMBER: 09132228
PATENT NUMBER: 6333321 44481-5036

FILING DATE: 08/11/1998
ISSUE DATE: 12/25/2001 Transferred
TTC

SERIAL NUMBER: 09794225
PATENT NUMBER: 6376515 44481-5061

FILING DATE: 02/28/2001
ISSUE DATE: 04/23/2002 Transferred
TTC

STEVEN POST, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

05-31-2002



102108467

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

COVER SHEET

Y

Attorney Docket No.: 44481-0021-US

To the Assistant Commissioner for Patents:
Please record the attached original documents or copy thereof.

ATTN: BOX ASSIGNMENT

1. Name of conveying party(ies):

COR Therapeutics, Inc.

5-24-02

Additional name(s) of conveying party(ies) attached?

Yes ☐ No ☒

2. Name and address of receiving party(ies):

Name: Millennium Pharmaceuticals, Inc.

Street Address: 75 Sidney Street

City: Cambridge State: MA

Country: US Zip: 02139

3. Nature of conveyance:

☐ Assignment ☒ Merger
☐ Security Agreement ☐ Change of Name
Other _____

Additional name(s) & address(es) attached?

Yes ☐ No ☒

Execution Date(s): February 12, 2002

4. Application number(s) or patent number(s):

If this document is being filed together with a new application the execution date of the application is:

A. Patent Application No.(s):

B. Patent No.(s): 5,278,144

Additional numbers attached: ☒ Yes ☐ No See attached Schedule A.

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Michael S. Tuscan, Ph.D.
Internal Address: Customer No. 009629
Morgan, Lewis & Bockius LLP

Street Address: 1111 Pennsylvania Ave., NW
City: Washington State: D.C. Zip: 20004

6. Total number of applications and patents involved: 46

7. Total fee (37 C.F.R. §3.41): \$1840.00

☐ Enclosed

☒ Authorized to be charged to deposit account 50-0310

8. Deposit account number: 50-0310

Attach duplicate of page if paying by deposit account

9. Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Michael S. Tuscan, Ph.D., Reg. No. 43,210

Name of Person Signing

Signature

Date

05/30/2002 LMUELLER 00000227 500310 5278144

01 FC-581 1840.00 CH

Total number of pages including cover sheet, attachments and documents: 7

Schedule A, U.S. patents

Patent No.	Issue Date	Title	Ref. No.
5,278,144	1994-01-11	Antithrombosis agents	44481-5002
5,597,799	1997-01-28	Recombinant agents affecting thrombosis	44481-5002-02
5,635,481	1997-06-03	Recombinant agents affecting thrombosis	44481-5002-03
5,650,314	1997-07-22	Recombinant agents affecting thrombosis	44481-5002-04
5,583,107	1996-12-10	Agents affecting thrombosis and hemostasis	44481-5002-05
5,795,863	1998-08-18	Recombinant agents affecting thrombosis	44481-5002-10
5,837,679	1998-11-17	Agents affecting thrombosis and hemostasis	44481-5002-11
5,990,079	1999-11-23	Agents affecting thrombosis and hemostasis	44481-5002-12
5,968,897	1999-10-19	Agents affecting thrombosis and hemostasis	44481-5002-13
5,342,830	1994-08-30	Antithrombosis agents	44481-5003
5,679,542	1997-10-21	Antithrombosis agents	44481-5003-01
5,744,584	1998-04-28	Antithrombosis agents	44481-5003-02
5,798,332	1998-08-25	Glycosylation-mediated inhibition of factor X	44481-5004-01
6,117,836	2000-09-12	Glycosylation-mediated inhibition of factor X	44481-5004-03
5,629,174	1997-05-13	Recombinant C140 receptor	44481-5006
6,043,212	2000-03-28	Recombinant C140 receptor, its agonists and antagonists, and nucleic acids encoding the receptor	44481-5006-03
5,874,400	1999-02-23	Recombinant C140 receptor, its agonists and antagonists, and nucleic acids encoding the receptor	44481-5006-04
5,763,575	1998-06-09	Agonist and antagonist peptides of the C140 receptor	44481-5006-05
5,716,789	1998-02-10	Method to determine ligands, agonist and antagonist of C140 receptor	44481-5006-07
6,297,026	2001-10-02	Nucleic acids encoding the C140 receptor	44481-5006-08
5,589,571	1996-12-31	Process for production of inhibited forms of activated blood factors	44481-5007
5,589,572	1996-12-31	Process for production of inhibited forms of activated blood factors	44481-5007-01
5,602,233	1997-02-11	Process for production of inhibited forms of activated blood factors	44481-5007-02
5,770,699	1998-06-23	Process for production of inhibited forms of activated blood factors	44481-5007-03
6,210,913	2001-04-03	Modulation of integrin-mediated signal transduction	44481-5008-01
5,871,963	1999-02-16	P _{2u2} purinergic receptor and nucleic acid encoding the receptor	44481-5010
6,063,582	2000-05-16	Methods of screening for compounds that interact with human P _{2u2} purinergic receptor	44481-5010-01

Schedule A, U.S. patents

Patent No.	Issue Date	Title	Ref. No.
5,817,310	1998-10-06	Inhibitory immunoglobulin polypeptides to human PDGF beta receptor	44481-5017-02
6,005,089	1999-12-21	Platelet glycoprotein V gene and uses	44481-5018-01
6,083,688	2000-07-04	Platelet glycoprotein V gene and uses	44481-5018-02
6,194,557	2001-02-27	Nucleic acid molecules encoding Bap-1 proteins	44481-5025
6,060,588	2000-05-09	Bap-1 proteins	44481-5025-01
6,322,990	2001-11-27	Methods of identifying agents that block the interaction of a BAP protein with a signaling partner	44481-5025-02
6,372,475	2002-04-16	Cloning and characterization of a human adenylyl cyclase	44481-5029-01
6,262,047	2001-07-17	Selective factor Xa inhibitors	44481-5012-02
6,369,080	2002-04-09	Selective factor Xa inhibitors	44481-5014-02
6,063,794	2000-05-16	Selective factor Xa inhibitors	44481-5015-01
6,194,435	2001-02-27	Lactams as selective factor Xa inhibitors	44481-5016-02
6,211,183	2001-04-03	Selective factor Xa inhibitors	44481-5021
6,369,063	2002-04-09	Selective factor Xa inhibitors	44481-5022
6,133,256	2000-10-17	Selective factor Xa inhibitors	44481-5023
6,204,268	2001-03-20	Selective factor Xa inhibitors	44481-5024
6,228,854	2001-05-08	Selective factor Xa inhibitors	44481-5034
6,218,382	2001-04-17	Selective factor Xa inhibitors	44481-5035
6,333,321	2001-12-25	Selective factor Xa inhibitors	44481-5036
6,376,515	2002-04-23	Benzamides and related inhibitors of factor Xa	44481-5061-01

Delaware

PAGE 1

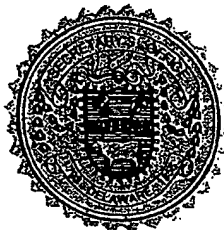
The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF OWNERSHIP, WHICH MERGES:

"COR THERAPEUTICS, INC.", A DELAWARE CORPORATION,

WITH AND INTO "MILLENNIUM PHARMACEUTICALS, INC." UNDER THE NAME OF "MILLENNIUM PHARMACEUTICALS, INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TWELFTH DAY OF FEBRUARY, A.D. 2002, AT 6 O'CLOCK P.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.



Harriet Smith Windsor
Harriet Smith Windsor, Secretary of State

2322355 8100M

AUTHENTICATION: 1610075

CERTIFICATE OF OWNERSHIP AND MERGER

MERGING

COR THERAPEUTICS, INC.
(a Delaware corporation)

INTO

MILLENNIUM PHARMACEUTICALS, INC.
(a Delaware corporation)

Millennium Pharmaceuticals, Inc., a corporation organized and existing under and by virtue of the General Corporation Law of the State of Delaware (the "Corporation"), does hereby certify:

FIRST: That the Corporation was incorporated on the 13th day of January, 1993, pursuant to the General Corporation Law of the State of Delaware.

SECOND: That the Corporation owns all of the outstanding shares of each class of the stock of COR Therapeutics, Inc., a corporation incorporated on the 4th day of February, 1988 pursuant to the General Corporation Law of the State of Delaware.

THIRD: That the Board of Directors of the Corporation, by written action in lieu of a meeting dated the 4th day of February, 2002, duly adopted the following resolutions:

RESOLVED: That, pursuant to Section 253 of the Delaware General Corporation Law, the Corporation is hereby authorized to merge COR Therapeutics, Inc., a Delaware corporation which is a wholly owned subsidiary of the Corporation, into the Corporation;

RESOLVED: That the President and Secretary of the Corporation be, and each of them hereby is, authorized to execute a Certificate of Ownership and Merger with respect to the merger of COR Therapeutics, Inc. into the Corporation, cause the same to be filed with the Secretary of State of the State of Delaware and take all such other actions and to execute all such other instruments and agreements as the officer or officers so acting may deem appropriate to effect such merger;

RESOLVED: That the merger of COR Therapeutics, Inc. into the Corporation shall be effective upon the filing of a Certificate of Ownership and Merger with the Secretary of State of the State of Delaware.

IN WITNESS WHEREOF, the Corporation has caused this Certificate to be signed by its authorized officer this 12th day of February, 2002:

MILLENNIUM
PHARMACEUTICALS, INC.

By: /s/ Mark J. Levin
Title: President